VIDEOLOGY®
IMAGING SOLUTIONS INC.

LCD MONITOR USER MANUAL

45M26 26" TFT

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This document provides technical information for the user. Videology reserves the right to modify the information in this document as necessary. The customer should make sure that they have the most recent manual version. Videology holds no responsibility for any errors that may appear in this document.

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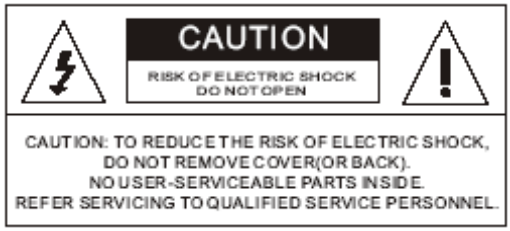
1. Warning

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK:
DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.
DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

CAUTION:


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Explanation of Graphical Symbols

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of non-insulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

2. Precautions

2.1. Safety

Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by the qualified personnel before operating it any further. Unplug the unit from the wall outlet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself. Allow adequate air circulation to prevent internal heat built-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.

2.2. Installation

Do not install the unit in an extremely hot or humid place or in a place subject to excessive dust or mechanical vibration. The unit is not designed to be waterproof. Exposure to rain or water may damage the unit.

2.3. Cleaning

Clean the unit with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzine as they might damage the finish of the unit.

Retain the original carton and packing materials for safe transport of this unit in the future.

3. Federal Communications Commission (FCC) Statement

This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that changes or modifications not expressly approved by that party responsible for compliance could void your authority to operate the equipment.

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions:

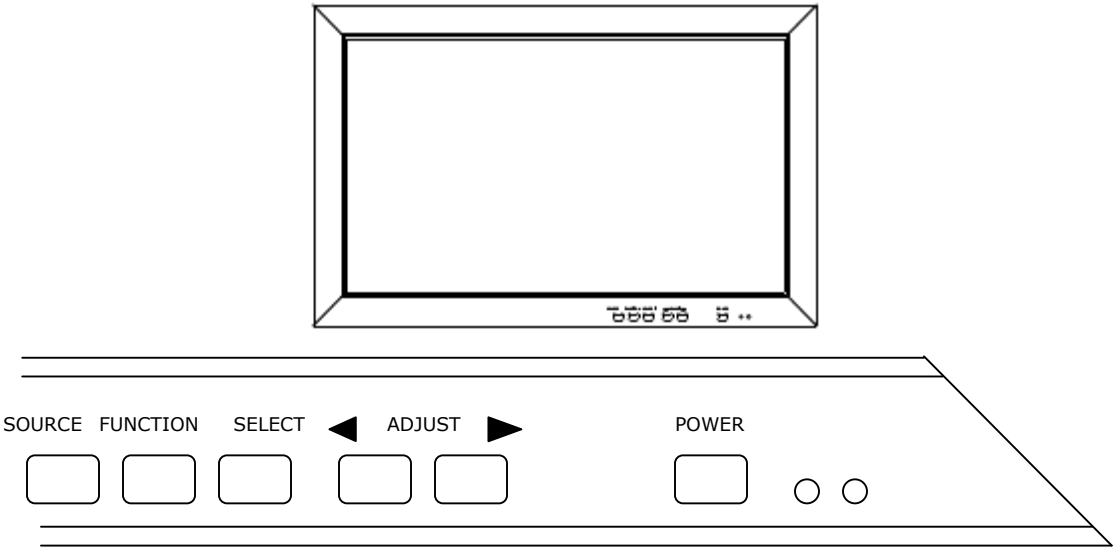
(1) This device may not cause harmful interference.
(2) This device must accept any interference received including interference that may cause undesired performance.

4. Features

- Compatible with VGA (640 x 480), SVGA (800 x 600) WXGA
- Support vertical refresh rate up to 75 Hz for VGA, SVGA, WXGA
- Automatic or manual detection of separate synchronize and composite synchronize of VGA signal
- 26-inch LCD monitor with multiple video inputs (composite, Y/C and D-sub)
- High brightness of 500 cd/m^2
- With 3D comb filter
- High contrast 800: 1
- High quality Horizontal and vertical scaling with 3D De-interlacing for display
- Wide viewing angle of 176^0, vertical and horizontal
- Fast LCD response time of 20ms
- Luminance Transient Improvement (LTI), Chrominance Transient Improvement (CTI)
- Video input support NTSC / PAL standard
- Built-in high precision Y/C Input signal
- Video out support auto termination (75 Ohms)
- Audio live-out function with stereo phone jack output
- Built-in 2W+2W speaker
- Support IR remote controller
- VESA standard (100mm x 100mm) bracket
- Wall mountable capability

5. Operating Instructions

5.1. Control



1. **Power**
   Monitor power ON / OFF. At OFF mode, monitor will be at standby status
   Green Light -- Power On
   Red Light -- Standby mode

2. **Adjust** ⇦
   Increase the value on the OSD menu or turn ON / OFF function

3. **Adjust** ⇨
   Decrease the value on the OSD menu or turn ON / OFF function

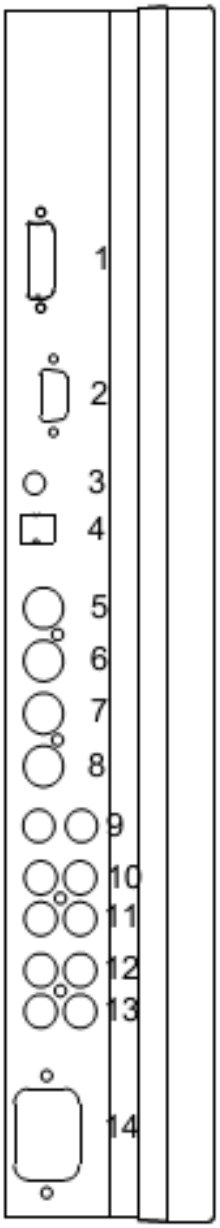
4. **Select**
   Chose sub menu from Audio / Video / Image
   Press again to enter selected option
   PIP/ POP/ function selection

5. **Function**
   OSD menu ON / OFF control

6. **Source**
   Select input signal from AV1, AV2, S-Video or PC

6. Connectors

6.1. Monitor Back Panel



1 **PC DVI- IN** (Option)
2 **PC VGA-IN**
3 **AUDIO LIVE OUT** (Stereo)
4 **DC12V/ 1A OUT** (Option)
5 **VIDEO 1 IN**
Composite signal Input for VIDEO 1
6 **VIDEO 1 OUT**
Video looping output for VIDEO 1
7 **VIDEO 2 IN**
Composite signal Input for VIDEO 2
8 **VIDEO 2 OUT**
Video looping output for VIDEO 2
9 **Y/C IN (S-Video)**
Y/C separated signal Input
10 **AUDIO 1 IN (L, R)**
Audio signal input, this input is for Av1
11 **AUDIO 1 OUT (L, R)**
Audio Looping output, for AUDIO 1
12 **AUDIO2 IN (L, R)**
Stereo Audio Signal Input, this input is for Av2, PC or Y/C (refer to Note below)
13 **AUDIO 2 OUT (L, R)**
Audio Looping output, for AUDIO 1
14 **AC IN**

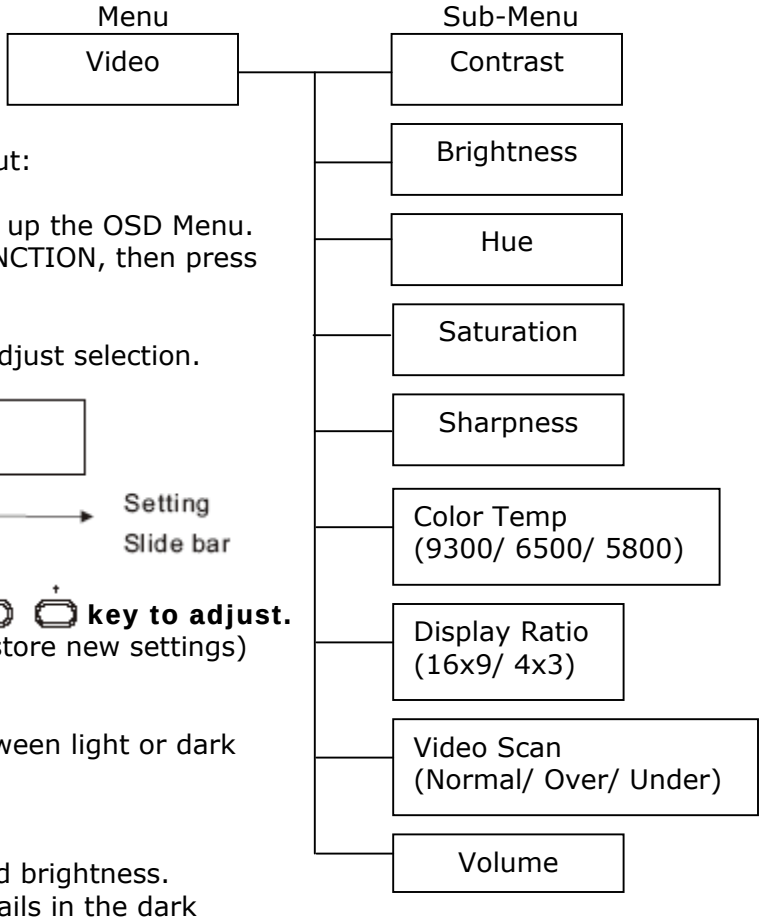
Note: Audio out is muted until video is present

Audio Connections

	Audio 1	Audio 2
PC		√
AV1	√	√
AV2		√
S-Video		√

7. OSD Architecture

7.1. Video Function



Press **SOURCE** to select a video input:

Press the FUNCTION button to bring up the OSD Menu.
Press ⇦ ⇨ again to select FUNCTION, then press SELECT twice to enter submenu.

As shown, press ⇦ ⇨ keys to adjust selection.

Note: In remote control, press - + key to adjust.
(After adjustment, the monitor will store new settings)

Contrast
Permits adjustment for contrast between light or dark areas of the picture.

Brightness
Adjusts the overall picture shade and brightness.
Tip: Use the Brightness to make details in the dark areas of the picture to be just visible, and contrast to brighten the picture without causing video noise and foreheads to turn white.

Hue
Adjust all the colors on the screen, but is most noticeable to the eye in reds and yellows, and is also usually set for pleasing face tones.
Note: Appears in NTSC mode only.

Saturation
Adds coloring to the black and white picture content (of a color signal), and is usually set for viewer's preference in color saturation.

Sharpness
Sets the desired sharpening enhancement to the picture.

Color Temp
Adjust the screen color temperature 9300/ 6500/ 5800.

Display Ratio
Select between 16x9 or 4x3.

Video Scan
Adjust the screen size to Normal/ Over/Under scan.

Volume
Control built-in speakers' output Volume.

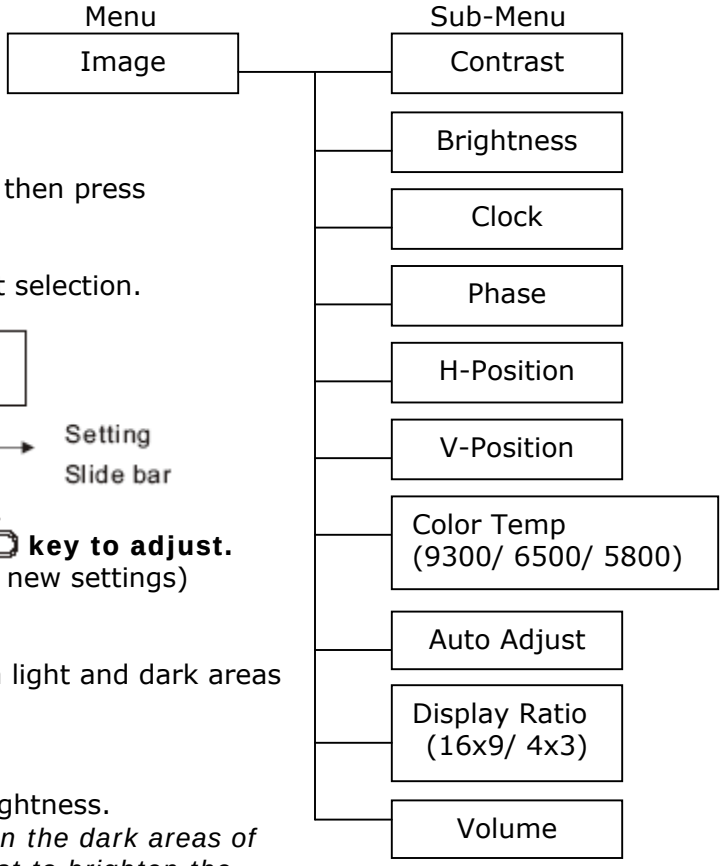
8. Video Function (PC Mode Only)

Press **SOURCE** to select a image input:

Press the FUNCTION button to bring up the OSD Menu.

Press ⇦ ⇨ again to select IMAGE, then press SELECT twice to enter submenu.

As shown, press ⇦ ⇨ keys to adjust selection.



Note: In remote control, press − + key to adjust.
(After adjustment, the monitor will store new settings)

Contrast
Permits adjustment for contrast between light and dark areas of the picture.

Brightness
Adjusts the overall picture shade and brightness.
Tip: Use the Brightness to make details in the dark areas of the picture to be just visible, and Contrast to brighten the picture without causing video noise and foreheads to turn white.

Clock
Is used to adjust to the best picture quality. It adjusts the number of the clock pixels across one timeline. Therefore it can affect the picture's position and size.
Note: Improper adjustment will caused image failure.

Phase
Is used to adjust to the best picture quality. It adjusts the sampling phase across one pixel at a time. When the phase is not adjusted properly, the picture will be unclear. Therefore this value should be carefully adjusted.
Note: Improper adjustment will caused image failure.

H-Position
Allows adjustment for the horizontal position.

V-Position
Allows adjustment for the vertical position.

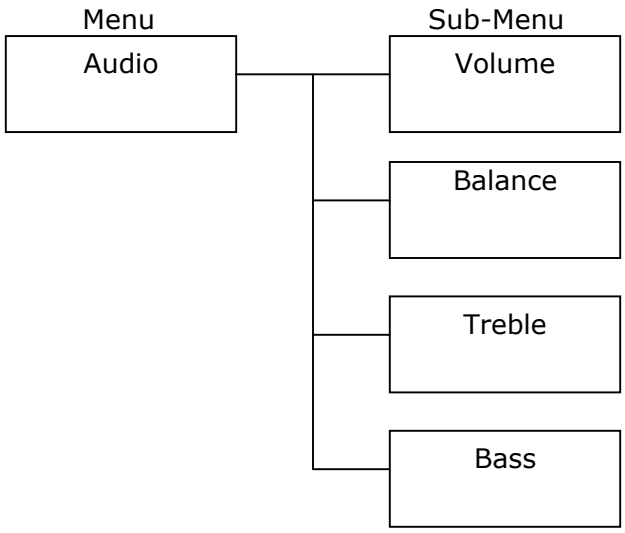
Color Temp
Adjust the screen color temperature 9300/ 6500/ 5800.

Auto Adjust
Auto detect screen detail data, such as clock and phase.

Display Ratio
Select between 16x9 or 4x3.

Volume
Control built-in speakers' output volume.

9. Audio Function



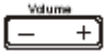
Press the MENU button to bring up the OSD Menu.
Press ⇦ ⇨ again to select AUDIO, then press ITEM twice to enter submenu.

As shown, press ⇦ ⇨ keys to adjust selection.

Figure 1. Example

Note: In remote control, press − + key to adjust.
(After adjustment, the monitor will store new settings)

Volume
Controls built-in as well as external speakers output volume.

Note: Volume control can also be adjusted by hot key. 

(Remote Operation)

Balance (Not available on 10.4" Monitor)
Controls built-in speakers output volume.

Treble
Audio treble adjustment.

Bass
Audio bass adjustment. Will not affect internal speakers. Bass adjustment is dependant on external speaker response.

Note: Audio is muted without accompanying video input.

10.LCD Monitor Mounting Guide

10.1. Desktop Mount

Adjust the viewing angle of LCD to fit the most comfortable monitoring status.

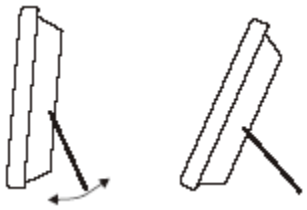


Figure 2.

10.2. Wall / VESA mount

Please follow the fix-hole size on back panel to install the LCD to the wall directly, or use a VESA mount.

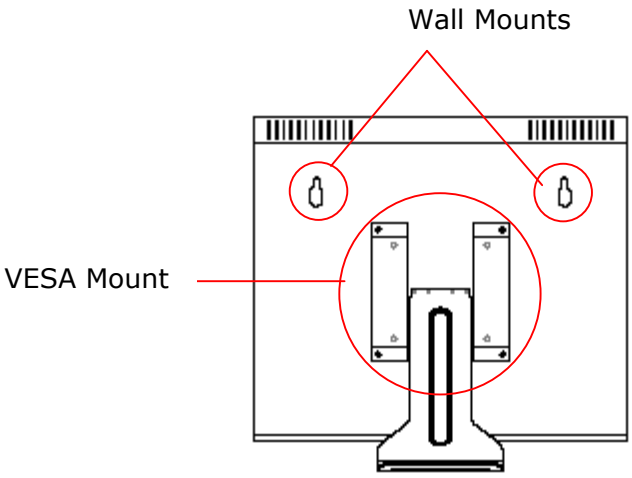


Figure 3.

11.Device Connectors

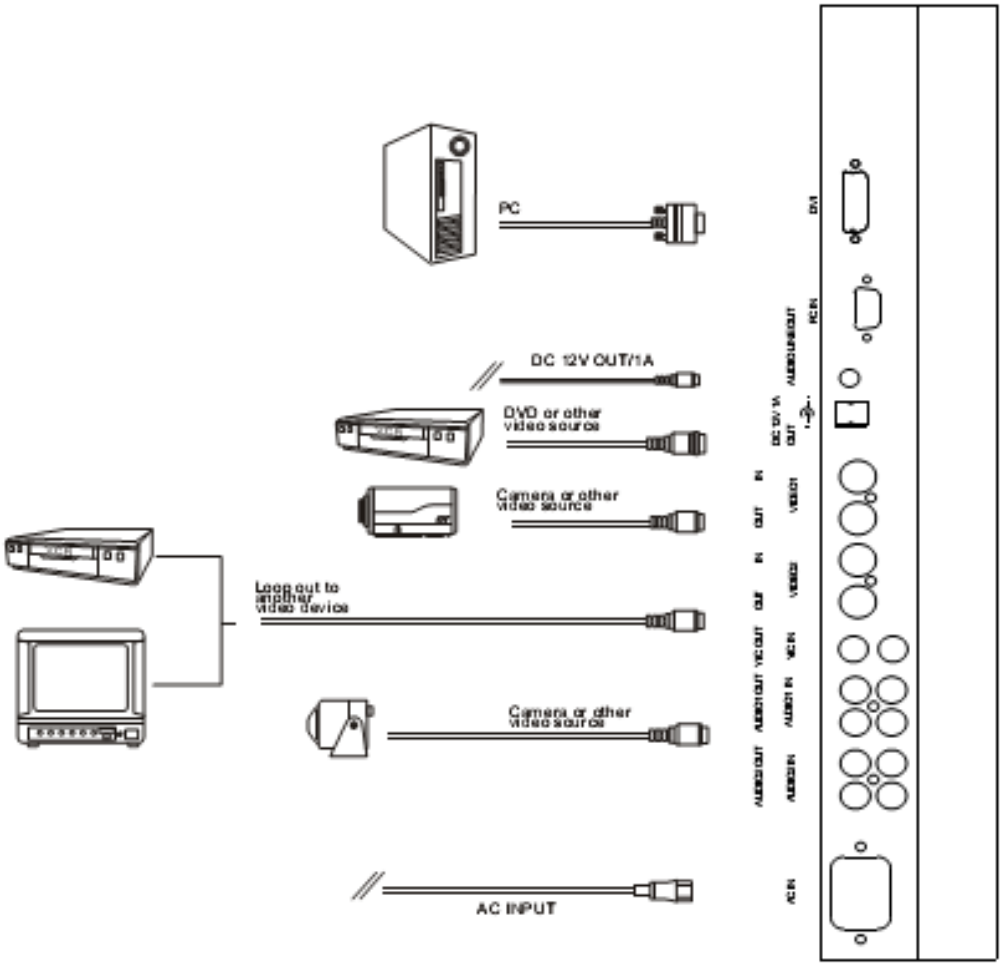


Figure 4. LCD Connectors

a) Connect PC to Monitor through VGA connector as shown in the above picture

b) Connect External device such as DVD or Game Player to Monitor as shown in the above picture

c) Connect CCD Camera 1 and 2 to Monitor through Video Input 1 and 2 (BNC Connect) as showing in the above picture

Note: Please refer to Specification for auto detection after changing resolution setting.

Table 1. Support Resolutions

640 x 480 60Hz	800 x 600 60Hz	1024 x 768 60Hz	1366 x 768 60Hz
640 x 480 72Hz	800 x 600 70Hz	1024 x 768 70Hz	
640 x 480 75Hz	800 x 600 72Hz	1024 x 768 75Hz	
	800 x 600 75Hz		

12.Specifications

Electrical

		45M26
LCD Panel		26" wide screen
Display Pixels		1366 x 768
Active Area		575.769mm x 323.712mm
LCD Profile Ratio		16:9
Display Colors		16.2M
Brightness		500 cd/m^2
Contrast Ratio		800:1
Viewing Angle		Up 88^0, Down 88^0, Left 88^0, Right 88^0
Response Time		15 Tr/ 5 Tf ms
Input Signal	Video:	Composite video, 1Vp-p @75ohm
	S-Video:	Y: 1Vp-p w /Neg. SYNC. C: 0.285Vp-p
	PC:	Analog RGB (XGA/ SVGA/ VGA/ WXGA)
	Audio:	Right, Left, 50~100mVp-p
In/Out Impedance		75 ohms/ Auto Termination
Operation System		NTSC/ PAL
Output Signal	Video:	Composite video, 1Vp-p @75ohm
	S-Video:	Y: 1Vp-p w /Neg. SYNC. C: 0.285Vp-p
	Audio:	Right, Left, 50~100mVp-p
3D Comb Filter/ De-Interlace		YES
PIP & POP		Optional
Power Source		90~260VAC 60Hz/ 50Hz
Power Consumption		5A/ 105W

Environmental

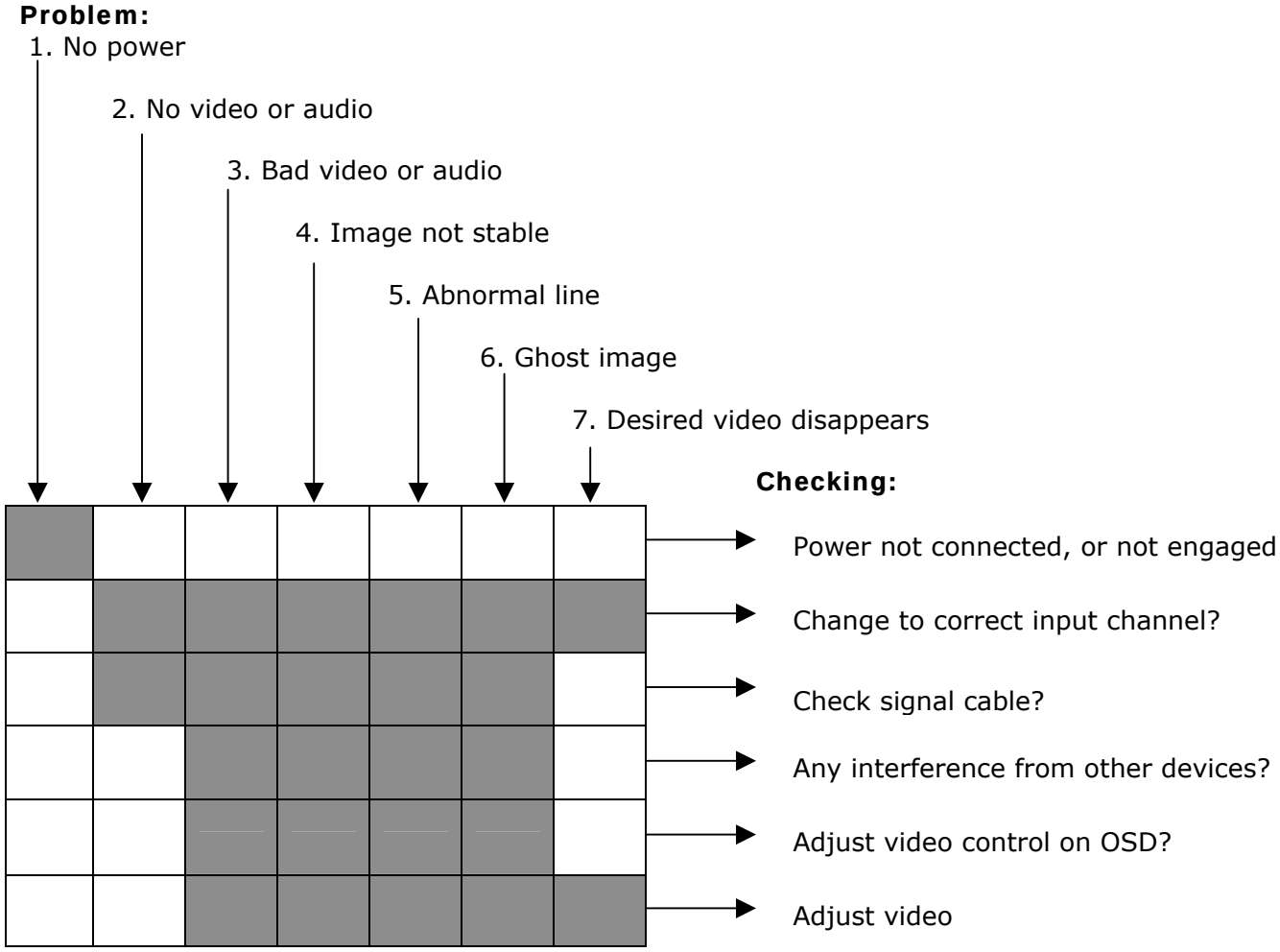
Ambient Operating Temperature	-10° C ~ 60° C (14°F ~ 140°F)
Operating Humidity	20% - 80%

Mechanical

Dimensions WxHxD	668mm x 415mm x 85.5mm (26.29” x 16.33” x 3.36”)	
Weight	9.5 kg (20.94 lbs)	
Accessories *included*	Power supply Power cord 15 pin D-sub Audio cable Bracket: VESA 100 standard	
Connectors	Video: Audio: PC: S-Video:	4 - 2CH BNC input / output 8 - 2CH RCA R. L. input / output 1 - 15-pin D-sub connector 4 - 4-pin min-din

13.Appendixes

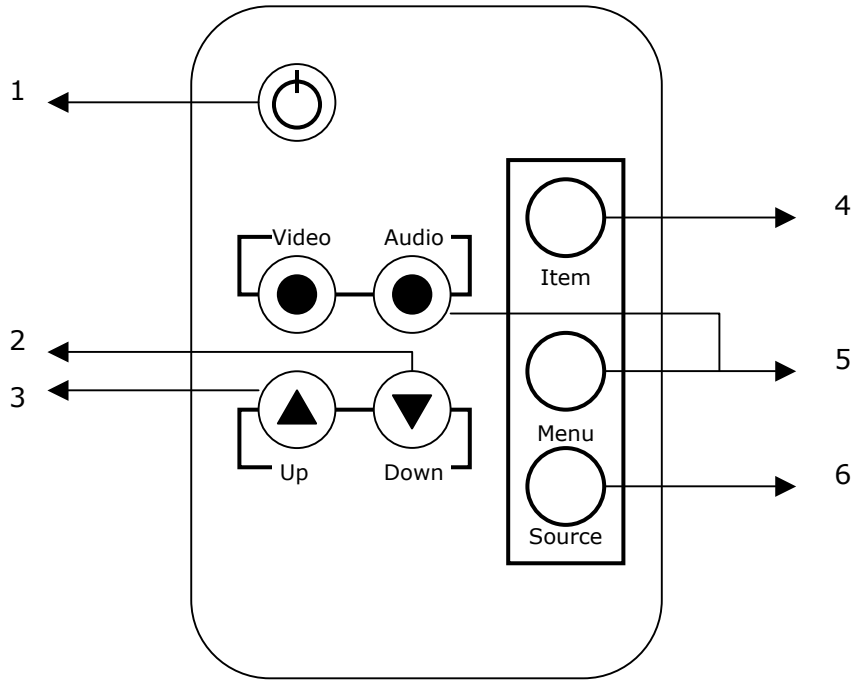
13.1. Troubleshooting



13.2. Package Contents

A. LCD monitor
B. Power cord
C. Accessory kit
    a. DB15 – DB15 VGA cable
    b. 1/8" male to 1/8" male mini stereo plug cable
D. User manual
E. 12V Power Adapter
F. Remote Control

14.Remote Control



1. **Power**
   Monitor power ON / OFF. At OFF mode, monitor will be on standby status
   LED - Green Light -- Power On
   Red Light -- Standby mode

2. **Adjust** ▼
   Decrease the value on the OSD menu or turn ON / OFF function

3. **Adjust** ▲
   Increase the value on the OSD menu or turn ON / OFF function

4. **Item**
   Chose sub menu from Audio / Video / Image
   Press again to enter selected option

5. **Menu**
   OSD menu ON / OFF control

6. **Source**
   Select input signal from AV1, AV2, S-Video or PC

15. Contact

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